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Liren Chen , Katia Sycara
Proceedings of the second international conference on Autonomous agents May 1998
- 2** PVA: a self-adaptive personal view agent system 93%

Chien Chin Chen , Meng Chang Chen , Yeali Sun
Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining August 2001

In this paper, we present PVA, an adaptive personal view information agent system to track, learn and manage, user's interests in Internet documents. When user's interests change, PVA, in not only the contents, but also in the structure of user profile, is modified to adapt to the changes. Experimental results show that modulating the structure of user profile does increase the accuracy of personalization systems.
- 3** An adaptive algorithm for learning changes in user interests 89%

Dwi H. Widyantoro , Thomas R. Ioerger , John Yen
Proceedings of the eighth international conference on Information and knowledge management November 1999

In this paper, we describe a new scheme to learn dynamic user's interests in an automated information filtering and gathering system running on the Internet. Our scheme is aimed to handle multiple domains of long-term and short-term user's interests simultaneously, which is learned through positive and negative user's relevance feedback. We developed a 3-descriptor approach to represent the user's interest categories. Using a learning algorithm derived for this representation, our scheme ad ...
- 4** Incremental clustering for profile maintenance in information gathering 87%

web agents
Gabriel L. Somlo , Adele E. Howe

Proceedings of the fifth international conference on Autonomous agents May 2001

User profiles are the central component of most personalized Web information agents. They consist of a set of models representing the various topics of interest to the user. Often the agent learns the user's preferences from examples of documents deemed relevant to the user. The topic of the document can either be supplied by the user (active modeling), or it must be guessed by the agent (passive modeling), which is more convenient but is expected to diminish the agent's accuracy. We present ...

5 Web technologies: Using web helper agent profiles in query generation 84%

Gabriel L. Somlo , Adele E. Howe

Proceedings of the second international joint conference on Autonomous agents and multiagent systems July 2003

Personalized information agents can help overcome some of the limitations of communal Web information sources such as portals and search engines. Two important components of these agents are: user profiles and information filtering or gathering services. Ideally, these components can be separated so that a single user profile can be leveraged for a variety of information services. Toward that end, we are building an information agent called *SurfAgent*; in previous studies, we have developed ...

6 Agent-oriented technology in support of e-business 84%

Mike P. Papazoglou

Communications of the ACM April 2001
Volume 44 Issue 4**7 Posters: A personalised information retrieval tool** 82%

Innes Martin , Joemon M. Jose

Proceedings of the 26th annual international ACM SIGIR conference on Research and development in information retrieval July 2003

Industry professionals and everyday users of the Internet have long accepted that due to both the size and growth of this ubiquitous repository, new tools are needed to assist with the finding and extraction of very specific resources relevant to a user's task. Previously, this definition of relevance has been based on the extremely generic matching between resources and query terms, but recently the emphasis is shifting towards a more personalised model based on the relevance of a particular re ...

8 Web search 2: Personalized web search by mapping user queries to categories 82%

Fang Liu , Clement Yu , Weiyi Meng

Proceedings of the eleventh international conference on Information and knowledge management November 2002

Current web search engines are built to serve all users, independent of the needs of any individual user. Personalization of web search is to carry out retrieval for each user incorporating his/her interests. We propose a novel technique to map a user query to a set of categories, which represent the user's search intention. This set of categories can serve as a context to disambiguate the words in the user's query. A user profile and a general profile are learned from the user's search history ...

9 Personal ontologies for web navigation 82%


Jason Chaffee , Susan Gauch

Proceedings of the ninth international conference on Information and knowledge management November 2000

10 Retriever: an agent for intelligent information recovery 82%


 D. Fragoudis , S. D. Likothanassis
Proceeding of the 20th international conference on Information Systems January 1999

11 Industry session 3: data analysis, mining, and managing XML: 80%

 Intelligent metasearch engine for knowledge management
 Eui-Hong Han , George Karypis , Doug Mewhort , Keith Hatchard
Proceedings of the twelfth international conference on Information and knowledge management November 2003

The explosive growth of available information sources and the resulting information overload pose several problems for users in many business organizations and educational institutions. First, searching through several information sources, one at a time, is a source of enormous frustration for users. Second, top-ranked documents in search results are frequently irrelevant to what users are interested in. To address these problems, we have developed ixmeta™, a powerful metasearch engine tha ...

12 Next-Gen Open Hypermedia, Part One: Links in the palm of your hand: 80%

 tangible hypermedia using augmented reality
 Patrick Sinclair , Kirk Martinez , David E. Millard , Mark J. Weal
Proceedings of the thirteenth ACM conference on Hypertext and hypermedia June 2002

Contextualised Open Hypermedia can be used to provide added value to document collections or artefacts. However, transferring the underlying hyper structures into a users conceptual model is often a problem. Augmented reality provides a mechanism for presenting these structures in a visual and tangible manner, translating the abstract action of combining contextual linkbases into physical gestures of real familiarity to users of the system. This paper examines the use of augmented reality in hyp ...


13 7a---Capturing Meaning: Open hypermedia as a navigational interface 80%

 to ontological information spaces
 Mark J. Weal , Gareth V. Hughes , David E. Millard , Luc Moreau
Proceedings of the twelfth ACM conference on Hypertext and Hypermedia September 2001

Ontologies provide a powerful tool for distributed agent-based information systems. However, in their raw form they can be difficult for users to interact with directly. Different query architectures use structured query languages as an interface but these still require the users to have an expert understanding of the underlying ontologies.

By using an Open Hypermedia model as an interface to an ontological information space, users can interact with such a system using familiar browsi ...

14 Evolving intelligent text-based agents 80%

 Edmund S. Yu , Ping C. Koo , Elizabeth D. Liddy
Proceedings of the fourth international conference on Autonomous agents June 2000

15 ALife-WebGuide: an intelligent user interface for Web site navigation 80%



Paolo Gaudiano , Klaus Kater

Proceedings of the 5th international conference on Intelligent user interfaces

January 2000

This article describes Artificial Life, Inc.'s WebGuide, an intelligent software bot that helps users navigate a Web site using natural language. The article describes the technology behind ALife-WebGuide, discusses some of the issues involved in commercialization of this type of user interface, and summarizes possible enhancements for future versions of this product.

16 User interactions with everyday applications as context for just-in-time 80%



information access

Jay Budzik , Kristian J. Hammond

Proceedings of the 5th international conference on Intelligent user interfaces

January 2000

Our central claim is that user interactions with everyday productivity applications (e.g., word processors, Web browsers, etc.) provide rich contextual information that can be leveraged to support just-in-time access to task-relevant information. We discuss the requirements for such systems, and develop a general architecture for systems of this type. As evidence for our claim, we present Watson, a system which gathers contextual information in the form of the text of the document the user ...

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